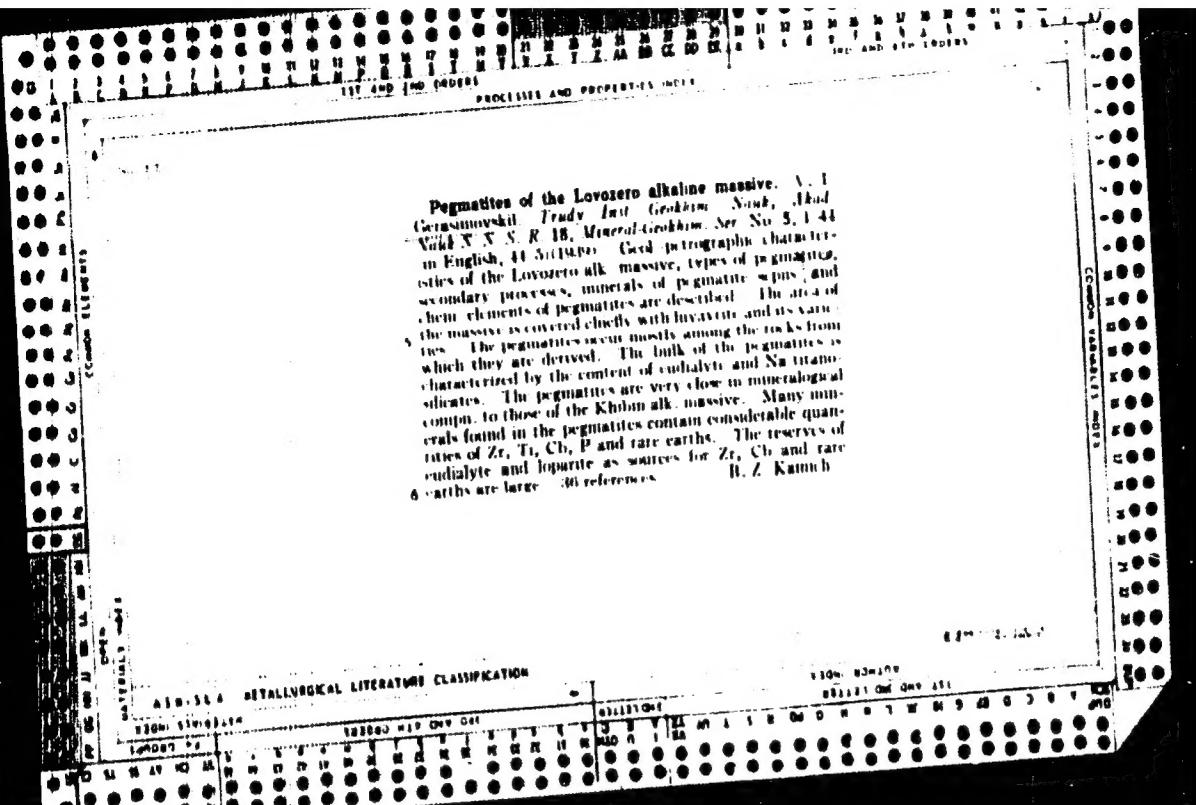


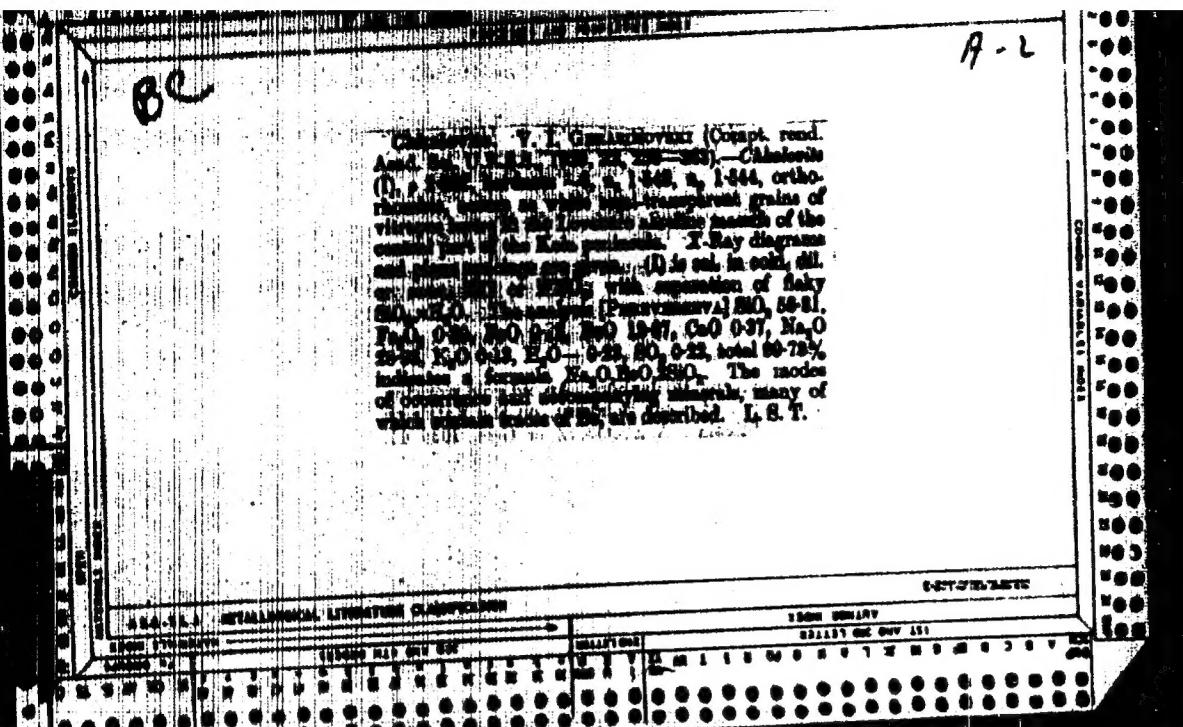
Unsights of the Lovester funder. V. I. Gerasimovskii  
Trav. inst. Lomonosov givchir., erid. minifkal. Bull. No  
10, 5-20 (in English 20-7) (1957).—Unsight, a secondary  
NaAl silicate, is associated with sulfitite. Its properties,  
both phys. and chem., are described. Spectroscopically,  
it showed the presence of Ga, Ti, Ca, Mn, K, Ni, Li, Cu,  
Fe and Mn. J. S. Jollie

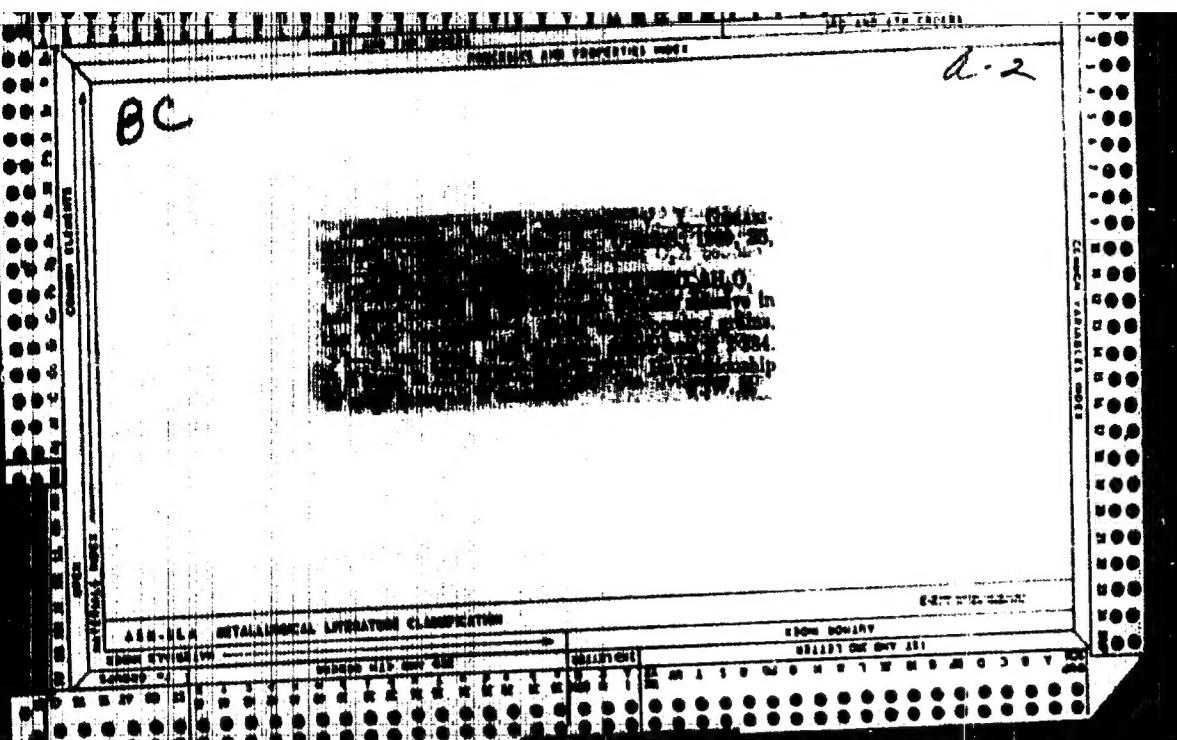
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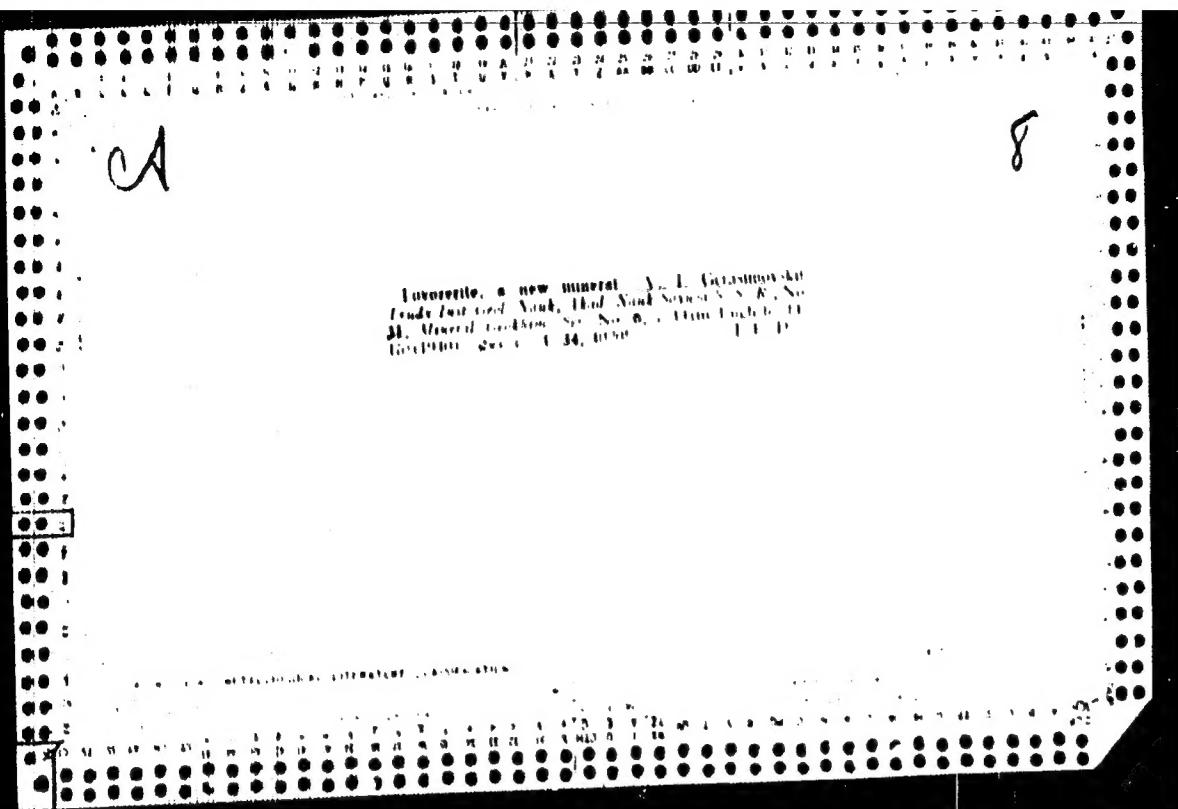
APPROVED FOR RELEASE: 09/24/2001

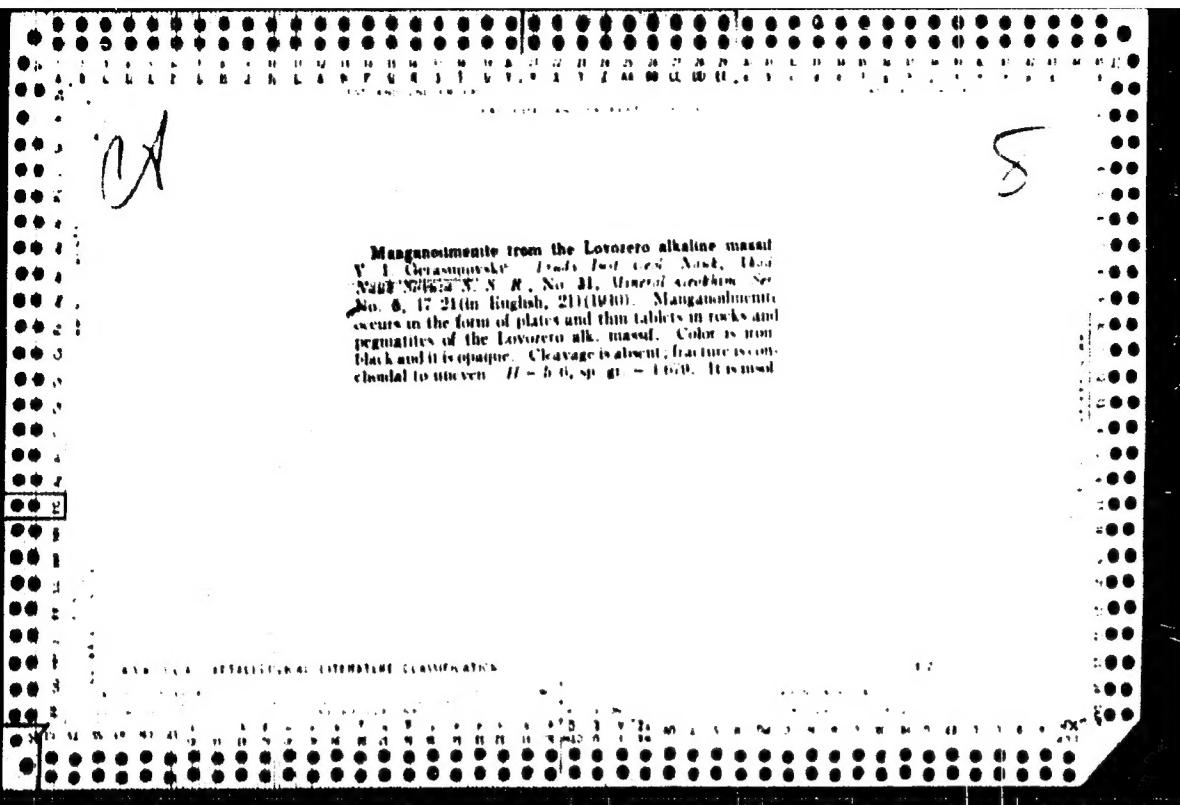
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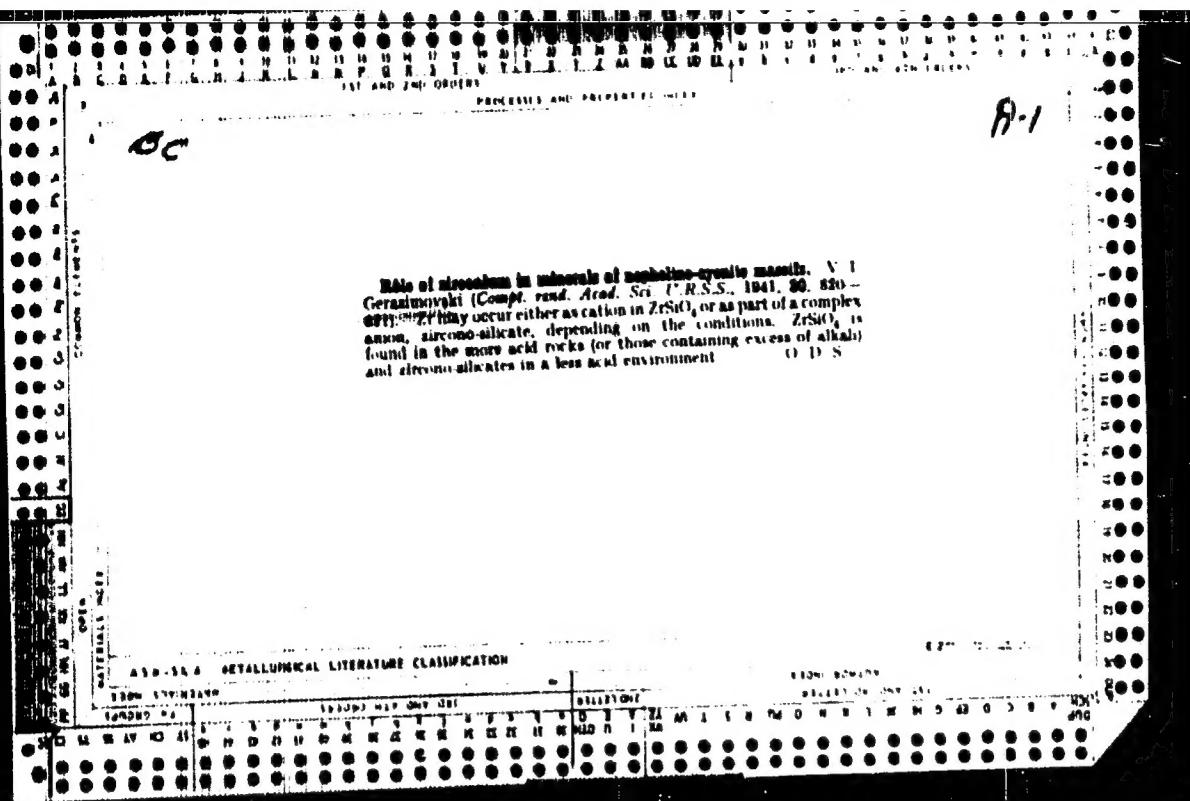












14. 12. 1960  
65. 66.  
Villiaumite from Lovozero landra. V. I. Gerasimovskii (Comp.  
Inst. Acad. Sci. U.R.S.S., 1941, 82, 403-408).--Villiaumite (minerali-  
cally NaF) occurs in intergrowths of leucocite as carmine-red grains.  
 $\mu_{400}$  1-2253, wave 1-3388, wave 1-3268, wave 1-3272. The X-ray  
spectrum agrees with NaF. It is found associated with sodalite-  
syenite and kyanite, and is probably widely distributed in the  
Lovozero and Chibay massifs.

Nordite, a new mineral of the Lovozero tundras. V. I. Gerashimovki (Comp. rend. Akad. Nauk. U.R.S.S., 1941, 22, 496-498) - Nordite occurs as light-brown lamella,  $a \cdot b \cdot c = 0.730 \cdot 1 \cdot 0.527$ . Cleavage is marked along (100); hardness 6-6.5; sp. gr. 3.430,  $n_p$  1.665,  $n_m$  1.630-1.640,  $n_g$  1.618. X-Ray data show it to be rhombic. The empirical formula is  $\pm \text{Na}_2\text{O} \cdot \text{Si}_2\text{O}_5 \cdot \text{Ca}_2\text{Mn}_2\text{Mg}[\text{O}_2\text{O}_7\text{Li}_2\text{O}_3\text{V}_2\text{O}_5\text{Si}_2\text{O}_5]$ . Of the individual rare earths, nordite contains  $\text{La}_2\text{O}_3$  8.45%,  $\text{Ce}_2\text{O}_3$  0.13%,  $\text{Pr}_2\text{O}_3$  1.8%,  $\text{Nd}_2\text{O}_3$  1.89%. It is found in pegmatites between sodalite grains. L. I. J.

Metoloparite, a new mineral from the Lovozero Tundra. V. I. Gerasimovskii (Compt. rend. Acad. Sci. U.R.S.S., 1941, 32, 61-63). The mineral, which was discovered in the Lovozero alkaline massif (Kola peninsula), is a secondary mineral, closely resembling loparite. The physical and optical properties of the mineral are recorded, and an analysis is given. A. J. M.

1218. Rare Earths in Minerals, by I. B. Borovnyk and V. I. Gerasimovskiy, Comptes  
rendus De L'Academie Des Sciences De L'URSS 40, 1945, 4 p. (In Russian).  
Quantitative analyses, with X-ray spectroscopic methods, of rare earths present in  
minerals found in the Soviet Union are discussed.

GERASIMOVSKY, V. I.

PA 4T97

USER/Minerals - Identification  
Rare earths

1945

"Rare Earths in Minerals," I. B. Borovsky and V. I. Gerasimovsky, 4 pp

"CR Acad Sci" Vol XLIX, No 5

Quantitative analyses, with X-ray spectroscopic methods, of rare earths present in  
minerals found in the Soviet Union.

GA

Impluvial region—an important source of ceramic raw materials. V. I. Gerasimovskii. *Razvedka Nefi* 12, 206, 4, 11-12 (1940).—This region located on the northern shore of Lake Ladoga abounds in pegmatites suitable for the ceramic industry. M. Horsch

M. Hock

19

GERASIMOVSKIY, V. I.

"Rare Earths in Minerals," Dokl. AN SSSR, 49, No.5, 1947

GERASIMOVSKIY, V. I.

"Structure of the Luavrite Complex of Rocks in the Lovozerskiy Mountain Range,"  
Dokl. AN SSSR, 56, No.9, 1947

CA

8

Lomonosovite, a new mineral. V. I. Urenovskii.  
*Doklady Akad. Nauk S.S.R.* **70**, 83-8 (1950).—Lomonosovite, scaly aggregates, without distinct crystal forms, is

dark brown to black, sometimes changing to violet-rose colored parts similar to murmanite, the luster is glassy or adamantine on cleavage, glassy to fatty on fractures. The mineral is brittle, hardness 3 to 4, d. 3.13, easily fused to a brown glass pearl in the oxidizing, to greenish yellow in the reducing, flame, but colorless after cooling. It is optically neg.;  $\gamma = 1.778$ ;  $\delta = 1.750$ ;  $n = 1.670$ ;  $2V = 36^\circ$ . Pleochroism is distinct, chiefly between brown and rose-colored hues. Sections parallel to the cleavage plane sometimes show polysynthetic twinning lamellae. The symmetry is monoclinic or triclinic. The dark-brown variety contains 12.8%  $\text{P}_2\text{O}_5$  and 26%  $\text{Na}_2\text{O}$ ; the rose-colored variety, 6 to 8%  $\text{P}_2\text{O}_5$ , 15.7 to 20.3%  $\text{Na}_2\text{O}$ , a trace of  $\text{K}_2\text{O}$ ,  $\text{TiO}_2$  up to 26.8%, and  $\text{H}_2\text{O}$  up to about 6%. The chem. compn. shows a series of transition types between murmanite,  $\text{Na}_2\text{Ti}_6\text{Si}_4\text{O}_{11}\text{H}_2\text{O}$ , and lomonosovite,  $\text{Na}_2\text{Ti}_6\text{Si}_4\text{O}_{11}\text{Na}_2\text{PO}_4$ , at the end members (theory of I. D. Borneman-Starynkevich). The  $\text{Na}_2\text{PO}_4$  in lomonosovite is easily leached out by dilut.  $\text{H}_2\text{O}$  even at room temp. The salt found after the evap. of the leached soln. is  $\text{Na}_2\text{PO}_4 \cdot 7\text{H}_2\text{O}$ . The heating curve of lomonosovite shows at 300° the endothermic effect of the fusion of  $\text{Na}_2\text{PO}_4$ . The genesis of lomonosovite in pegmatites of large nephelin, svenite complexes, in paragenesis with haukssonite, ussingite, lamprophyllite, eudialyte, arfvedsonite, microcline, and ramsayite is very characteristic. Secondary minerals are aragonite, nordite, neptunite, sphalerite, and molybdate. Also the paragenesis with vilsmannite ( $\text{Na}_2\text{Si}_3$ ) is very typical. If the residual magmatic solns. are high in water, lomonosovite is replaced by murmanite, leaching of  $\text{Na}_2\text{PO}_4$  from lomonosovite can form the latter mineral. W. Kittel

1957

C A

8

Belyankinite, a new mineral. V. I. Gerasimovskii and M. B. Kazakova. *Doklady Akad. Nauk SSSR*, 71, 923-7 (1950).—Details of the cupferron method are given, especially for the sepa. of Fe, Al, Ti, Zr, Nb, and Ta. The results suggest the complex formula  $2\text{CaO} \cdot 12\text{TiO}_3 \cdot 0.5\text{Nb}_2\text{O}_5 \cdot 2\text{Cr}_2\text{O}_3 \cdot 8\text{Ca}_2\text{Si}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ ; by spectral analysis the presence of Hf, Pb, and traces of Cu are additionally established. The mineral is readily dissolved in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub>. The new mineral is observed in dense, plate-tabular yellow-brown aggregates. The following characteristics were observed: hardness 3-3; brittle with excellent tabular cleavage; sp. gr. 2.32 to 2.40; fusible in the blowpipe flame; optically neg.; elongation pow., 2V 21 to 26°, n about 1.740,  $\beta = 1.777$  (av.); pleochroism distinct: dark-brown to reddish brown. The mineral is orthorhombic or monoclinic. It is often altered along fractures. The x-ray powder diagram (Cu and Fe radiation) did not show distinct interference lines; the Laue method gave some spots which establish the cryst. state of the mineral. The heating curve shows two endothermic dehydration effects at 150° and 400 to 450°, and an exothermic reaction at 750°. Belyankinite is found in pegmatites in foyates. It occurs with microcline, epidote, nepheline, and aegirite. The nepheline is usually altered to scapolite. Belyankinite is often included in aegirite, and sometimes also in microcline; it is, therefore, older than the aegirite. In its exterior parts, the pegmatite contains abundant emilolyte, with black aegirite, tansyite, and lamprophyllite. Characteristic Christmas-tree-like or honeycomb-like cavities suggest the previous crystn. of villaumite, which was later leached away by hydrothermal waters. Genetically, belyankinite is classified with mutumite and homonovite. W. Etel

GENNADY V.

2

Typomorphic minerals of nepheline syenites. V. V. Kostomarov, V. V. Porets, I. V. Mironov, A. Yu. Anan'ev, N. N. Kostomarov, 1982-1983. In agpaitic magmas the ratio  $(\text{Na}_2\text{O} + \text{K}_2\text{O})/\text{Al}_2\text{O}_3$  is above 1; in maskitic rocks it is below 1. In nephelite rocks  $\text{Na}_2\text{O}$  is much above  $\text{K}_2\text{O}$ ;  $\text{FeO}$ , above  $\text{CaO}$ ;  $\text{Ca}$  above  $\text{K}$ ; in maskitic rocks  $\text{Na}_2\text{O}$  is equal to, or below  $\text{K}_2\text{O}$ ;  $\text{FeO}$  equal to, or below  $\text{CaO}$ ;  $\text{V}$  above  $\text{Ca}$ . Zr, Ti, illicate are enriched in nephelite; nephelite, sodalite, albite, and aphydolite are typical for these, and absent in maskitic in which, however, cancrinite appears in the place of nephelite. Biotite, lepidomelane which are typical for maskitic, are absent in agpaites. An extensive table shows data by side the characteristic (typomorphic) minerals in agpaites for the following elements: Zr, Ti, Nb, Ca, Sr, Ba, carbon, Mg, Be, Fe, Al, Na, K, Li, V, Ca, P, and Cl. Minerals which occur in both series and are therefore not typomorphic are the K, Na feldspars, albite, nephelite, cancrinite. Agpaitic and maskitic rock types are often associated in one and the same alk. massif. Intermediate rocks may often appear, with  $\text{R}_2\text{O}/\text{Al}_2\text{O}_3$  up to 1. Typomorphic for such hybrids are eudialyte and sphene; granulite + granophyre, eudialyte + murnanite + apatite. W. R.

RE 10/27

GERASIMOVSKIY, V. I.

"Niobium, Tantalum, and Titano-Magnetite Deposits in the USSR" (Nioby i Tantal v SSSR), Priroda, No.7, July 1954

Translation U-2720, 15 Dec 52

СЕКРЕТ - FIG - Секрет

LAVROVICH, Nikolay Stepanovich; BRITAYEV, N.D., redaktor; GERASIMOVSKII, V.I., redaktor; YERSHOV, A.D., redaktor; KONSTANTINOV, M.M.; NIFONTOV, R.V., glavnnyy redaktor; SAAKYAN, P.S., redaktor; SMIRNOV, V.I., redaktor; SOLOV'YEV, D.V., redaktor; CHERNOSVITOV, Yu.L., redaktor; SOSHNIKOVA, N.S., redaktor vypuska; SERGEYeva, N.A., redaktor izdatel'stva; AVERKIEVA, T.A., tekhnicheskiy redaktor.

[Fluorspar; (fluorite).] Plavikovyi shpat (fliuorit). Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedor, 1956. 133 p.  
(Otseinka mestoroshdenii pri poiskakh i razvedkakh, no.16).

(Fluorite)

(MLRA 10±9)

GERASIMOVSKIY, V.I.

SUBJECT USSR / PHYSICS  
AUTHOR GERASIMOVSKIY, V.I.  
TITLE The Minerals of Uranium.  
PERIODICAL Atomnaja Energija, 1, fasc. 4, 118-130 (1956)  
Issued: 19.10.1956

CARD 1 / 2

PA - 1521

Here those uranium minerals which are at present known are described. A table contains the chemical formula, color, syngony, hardness, specific weight, uranium content, and genesis of the following uranium minerals (which are the most spread):

Oxides: uranite, nasturan, remanent and regenerated platinum black (= pitchblend), uranothorianite.

Hydroxides: Becquerelite, curite.

Silicates: uranophan (uranotyl), beta-uranophan, kazolite, coffinite, nenaadkevite.

Sulphates: uranopylite, zippeite.

Carbonates: uranothallite (lybeite).

Sulphate-Carbonates: Schroeckingerite.

Phosphates: phosphuranylite, autunite, torbernite, metatorbernite, pearsonite.

Arsenates: uranospinitite, zeinerite, metazeinerite.

Vanadates: carnotite, tuyamunite.

Compound Oxides: davidite, brannerite. (These two minerals are titanates).

The following are titano-tantalo-niobates: hatchettovite, elswortite, fergusonite, euxenite, polykras, samarkite, betafite, ampangabeite.

Atomnaja Energija, 1, fasc. 4, 118-130 (1956) CARD 2 / 2 PA - 1521

Organic Compounds: tucholite, karburan. These two compounds are mixtures of hydrocarbons with Th and U.

In the text of this paper also the more rare uranium minerals and their occurrence were discussed.

Enumeration is not complete; see Energia Nucleare, 2, No 2 (April 1956).

INSTITUTION:

GERASIMOVSKIY, V.I.

Mineralogical characteristics of uranium mineralization in the  
oxidation zone of the Shinkolobwe deposits. Geokhimiia no.7:73-  
76 '56. (MLRA 10:1)

1. Institut geokhimi i analiticheskoy khimii imeni V.I. Vernadskogo  
Akademii nauk SSSR, Moskva.  
(Shinkolobwe--Uranium ores)

89-12-6/29

AUTHOR: Gerasimovskiy, V. I.

TITLE: Occurrence of Uranium in Different Rocks (O formakh nakhozhdeniya urana v gornykh porodakh)

PERIODICAL: Atomnaya Energiya, 1957, Vol. 3, Nr 12, pp. 525-529 (USSR)

ABSTRACT: The problem of the form of uranium in rocks is of utmost significance for the settling of the conditions of formation of uranium deposits.

In 1910 this problem was dealt with by Vernadskiy for the first time.

Based on the latest researches the following can be said:  
1) The most different uranium minerals are formed (oxides, hydroxides, sulphates, carbonates, silicates, phosphates, arsenates, vanadates).

2) Uranium in consequence of isomorphous mixtures comes into the crystal lattice of non-uranium minerals.

3) In scattered condition uranium comes into the rock, namely:  
a) in absorbed form (ion absorption)

b) in dissolved condition in the rock water

After the formation of rock an exchange of the total content of uranium between the different mentioned phases takes place.

There are 2 tables, and 11 Slavic references.

Card 1/2

Occurrence of Uranium in Different Rocks

89-12-6/29

SUBMITTED: October 29, 1956

AVAILABLE: Library of Congress

Card 2/2

GERASIMOVSKIY, V.I.; TURANSKAYA, N.V.

Agpaitic nepheline-syenite minerals with a high lanthanum and cerium content in the Lovozero massif (Kola Peninsula). Geokhimiia no.4:334-336 (MIRA 12:3)  
'57.

1. V.I. Vernadskiy Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, U.S.S.R., Moscow.  
(Lovozero region--Nepheline syenite)  
(Lanthanum) (Cerium)

GERASIMOVSKIY, V. I.; KAKHANA, M. M.; RODIONOVA, L. N.

Manganese and tantalum ratio in agpaitic rocks of the Lovozero alkaline massif. *Geochemistry no.5:417-419 '57.* (MIRA 12:3)

1. V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, USSR, Moscow.  
(Lovozero region--Feldspar) (Manganese) (Tantalum)

2017/2018 學年第二學期 | 第二十二周 | 週次 | 10 | 日期 | 2018年5月21日 |

Elemental (type) elements; polystyrene, acrylic, propylene (two parts 1998, 351 p., 2-200 mg/ml plastic) *Master, Master AF Master*.

This book is intended for scientists, chemists, teachers and students of older educational institutions, and industrial engineers and other persons interested in the structure, properties, uses and new earth elements.

202. This collection contains specimens presented at the June 1926 Geologic Survey meeting, by Dr. David L. Clegg, at the Bureau of Geologic Survey and Analytical Chemistry, Bureau of Mines, U. S. Department of Commerce. The article is a classical method of separating new data mineral from the earth's crust, for example, chalcocite, chalcopyrite, pyrite, and pyrrhotite, and from pyrrhotite, chalcocite, chalcopyrite, and pyrite, the latter method the Bureau's original technique for separating these elements. New methods developed by the Bureau and the Bureau's Bureau of Mines, Bureau of Geologic Survey, and Bureau of Analytical Chemistry, Bureau of Mines, and especially the Bureau of Geologic Survey, have been developed to separate the mineral components of these elements to determine their specific properties.

Kharkov, V. I. (Institute of Geochemistry and Analysis): Gomel' 1927  
and V. I. Voinov (Institute of Geochemistry and Analysis): Gomel' 1927

48  
Chemists and Geologists in the Five States  
John C. J. L. and J. P. Mathews (State Water Supply Scientific  
Advisory Board of Hawaii) for the Separation  
of Gold and Silver from the Minerals of the Hawaiian  
Islands and Preparation of High Purity  
Gold Concentrates of the Various Minerals  
95

3  
Lyoner, S. V. and G. T. Kishimoto. Application of Complex Separating Substances for the Separation of Rare Earth Elements by Fractional Precipitation of Ammonium Sulfates

13

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514820010-0"

GERASIMOVSKIY, V.I.

Symposium dedicated to the memory of V.I. Vernadskii on the  
95th anniversary of his birth [with summary in English]. Geokhimiia  
no.3:283-284 '58. (MIRA 11:7)  
(Vernadskii, Vladimir Ivanovich, 1863-1945)

3(1)

AUTHORS: Gerasimovskiy, V. I., Lebedev, V. I. SOV/7-58-6-5/16

TITLE: On the Strontium .. Calcium Ratio in Rocks of the Lovozerkiy  
Massif (O sootnoshenii strontsiya i kal'tsiya v porodakh  
Lovozerskogo massiva)

PERIODICAL: Geokhimiya, 1958, Nr 6, pp 553 .. 557 (USSR)

ABSTRACT: The authors investigated the nepheline syenites of the Lovozerkiy Massif (Kol'skiy poluostrov). The Sr and Ca content was flame photometrically determined (oxyacetylene torch, double glass monochromator, photo multiplier MM-17, rectifier VZ-1). The massif was intrusively formed in several phases and consists of the following rocks: 1. Complex of porphyritic, poecilitic and other nepheline syenites; 2. Complex of lujavrites, foyrites and urtites; 3. Complex of eudialyte bearing lujavrites and porphyritic lujavrites which are in connection with the former mentioned, tawites (tavity) and poecilitic sodalite syenites; 4. Complex of young dike rocks. Rocks of the three first mentioned complexes were investigated (Table 2). Their content is between 0.008 and 1.75% SrO and 0.03 and 11.0% CaO. There is no direct connection

Card 1/3

On-the Strontium - Calcium Ratio in Rocks of the  
Lovozerkiy massif

SOV/7-58-6-5/16

although they have some maxima and minima in common (Diagram). Apart from Ca Sr is also substituted for K. Furthermore, Sr is genetically related with Na (Table 3). The most important minerals are: Lamprophyllite, belovite, apatite, norite, loparite, eudialyte, erikite, diaspistic rock, microcline (analyzed by V. A. Moleva), lovocerite. Investigations showed the following facts: Nepheline syenites of the Lovozerkiy massif have a comparatively high Sr/Ca ratio (0.033 to 0.541). Poecilitic sodalite syenites do not belong to the same intrusion phase as poecilitic nepheline syenites, as it was frequently assumed. The strontium content of miaskite rocks (first complex) is higher than that of agpaitic rocks (second and third complex). There are 1 figure, 3 tables, and 5 references, 2 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy, AS USSR, Moscow)

Card 2/3

3(0)

AUTHORS: Gerasimovskiy, V. I., Tuzova, A. M., SOV/7-58-8-5/8  
Shchavalevskiy, I. D.

TITLE: On the Zirconium-Hafnium Ratio in Rocks of the Lovozerskiy  
Massif (0 tsirkoniyevo-gafniyevom sootnoshenii v porodakh  
Lovozerskogo massiva)

PERIODICAL: Geokhimiya, 1958, Nr 8, pp 743 - 748 (USSR)

ABSTRACT: 48 rock samples from three magmatic complexes of the Lovozerskiy massif, Kola peninsula (Lovozerskiy massiv, Kol'skiy poluostrov) were examined. The zirconium and hafnium content was determined by the X-ray spectrometric method. The results are recorded in a table. The zirconium and hafnium content ranges from 0.07 to 2.31%  $ZrO_2$  and from 0.015 to 0.057%  $HfO_2$ , while the variations of the zirconium-hafnium ratio are insignificant. Zr and Hf are concentrated in later magmatic complexes: 0.167% in the first, 0.290% in the second and 1.49%  $ZrO_2$  in the third. Apgaitic rocks have a higher Zr and Hf content than miascitic rocks, but no relation between sodium-potassium and zirconium-

Card 1/2

On the Zirconium-Hafnium Ratio in Rocks of the  
Lovozerkiy Massif

SOV/7-58-8-5/8

hafnium contents could be observed. There are 1 figure,  
1 table, and 11 references, 6 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR, Moscow)

SUBMITTED: July 15, 1958

Card 2/2

GERASIMOVSKIY, Vasiliy Ivanovich; SHCHERBINA, V.V., prof., otv.red.;  
BOYAKHSKIY, V.A., red.izd-va; YEGOROVA, N.P., tekhn.red.

[Deposits of uranium in foreign countries] Mestoroshdeniya  
urana zarebeshnykh stran. Moskva, Izd-vo Akad.nauk SSSR,  
1959. 140 p. (MIRA 12:12)  
(Uranium ores)

5(2)

PHASE I BOOK EXPLOITATION

SOV/2402

Akademiya nauk SSSR. Institut geokhimi i analiticheskoy khimi

Nedkozemel'nyye elementy; polucheniye, analiz, primeneniye (Rare Earth Elements; Production, Analysis, and Use) Moscow, Izd-vo AN SSSR, 1959. 331 p.  
5,000 copies printed.

Resp. Ed.: D. I. Ryabchikov, Professor; Eds. of Publishing House: D. N. Trifanov and T.G. Levi; Tech. Ed.: S. G. Markovich; Editorial Board: I. P. Alimarin, Corresponding Member, USSR Academy of Sciences, I. N. Zaozerskiy, Doctor of Chemical Sciences, R. V. Kotlyarov, Candidate of Chemical Sciences, V. I. Kuznetsov, Doctor of Chemical Sciences, M. M. Senyavin, Candidate of Chemical Sciences, and Yu. S. Sklyarenko, Candidate of Chemical Sciences.

**PURPOSE:** This book is intended for chemists in general and for geochemists and analytical chemists in particular.

**COVERAGE:** This collection of articles consists of reports presented at the Rare Earth Elements Symposium held in June 1956 at the Institute of Geochemistry

Card 1/9

## Rare Earth Elements (Cont.)

SOV/2402

and Analytical Chemistry imeni V. I. Vernadskiy. The book may be divided into three sections: the characteristics, uses and production of rare earth elements (REE); the methods of analyzing REE; and the application of individual rare earth elements and REE mixtures in the glass and metallurgical industries, and their use as catalysts. Considerable space is devoted to the application of ion-exchange chromatography in the production of pure forms of all rare earth elements. The combinations of this method with other methods in separating REE on an industrial scale are discussed by D. I. Ryabchikov, Yu. S. Sklyarenko, and M. M. Senyavina. Chemical methods of separating REE compounds are discussed by I. N. Zaozerskiy (who is said to be the first in the USSR to develop methods of processing REE), V. V. P. Kotlyarov, Z. F. Andreyeva, A. V. Nikolayev, and G. P. Aleksandrov. Quantitative X-ray spectral analytical methods are described by E. Ye. Vaynshteyn, and chemical methods of analysis by I. P. Alimarin and F. I. Pavlotshkaya. The determinations of REE impurities in pure products and atomic materials are discussed at length in three articles by A. N. Zaydel' and his associates. All articles are accompanied by photographs, diagrams, tables, and bibliographic references.

## TABLE OF CONTENTS:

Foreword

3

Card 2/9

Rare Earth Elements (Cont.)	SOV/2402
Vinogradov, A. P. Utilization of Rare Earth Elements	5
Ryabchikov, D. I., Yu. S. Sklyarenko and M. M. Senyavin. Rare Earth Elements and General Methods of Obtaining Them	9
Gerasimovskiy, V. I. Geochemistry of Rare Earth Elements	29
Volkova, M. I. Causes for the Variation in the Specific Gravity of Khibiny Apatites	42
Zaozerskiy, I. N., and P. N. Patkin. Separation of Cerium From Rare Earth Elements (REE) and Its Preparation in Pure Form	48
Kotlyarov, P. V., and G. P. Kozhemyako. Use of Binary Sulfate in Separating REE Into Sub-Groups and in the Production of High Content Concentrates of Certain Elements of the Ittrium Sub-Group	55
Kotlyarov, P. V., and G. P. Kozhemyako. Use of Complex Forming Substances in Separating REE by the Method of Fractional Precipitation of Binary Sulfates	62

Card 3/9

Rare Earth Elements (Cont.) SOV/2402

Nikolayev, A. V., A. A. Sorokina, and A. S. Maslennikova. Chemical Research and the Separation of REE (Production of Ce and La. Concentrates of Pr and Nd of the Heavy Rare Earth Elements)	68
Andreyeva, Z. F. Separation of the Elements of the Ittrium Sub-Group by Basicity	76
Andreyeva, Z. F., and P. N. Patkin. Production of Pure Ittrium	80
Aleksandrov, G. P. Nickel-Nitrite Complexes and Their Utilization in Separating the Total Mass of REE Into Sub-Groups	84
Senyavin, M. M., F. D. Iosefovich. Large Scale Chromatographic Separation of REE Mixtures	91
Andreyeva, Z. F., T. V. Kishchenko, N. V. Bredenfel'd, and O. I. Rothdestvenskaya. Trilon B in an Ion-Exchange Separation of the Rarer Earth Elements	100
Andreyeva, Z. F., and A. S. Kostygov. Characteristics of Trilon A and Trilon B in an Ion-Exchange Separation of Elements of the Cerium Sub-Group	108

Card 4/9

Rare Earth Elements (Cont.)

SOV/2402

Martynenko, L. I. Certain Problems of Chromatographic Separation of REE	112
Dodonov, Ya. Ya., V. P. Khramov, V. S. Kolosova. Process of the Separation of Elements of the Cerium Sub-Group by NSK Cationite	121
Chernova, Ye. P., N. N. Tunitskiy, and V. V. Nekrasov. Separation of REE by the Counter Flow Chromatography Method	129
Kolosova, G. M., and M. M. Senyavin. Separation of REE by Anionites	138
Sklyarenko, S. I., I. E. Krause, and V. A. Morozova. Comparative Evaluation of Electrochemical Methods of Producing Itterbium	143
Troitskiy, K. V. Study of the Method of Separating Radioisotopes on Paper Filters for the Purpose of Obtaining Ce <sup>144</sup> Without a Carrier	151
Alimarin, I. P., and F. I. Pavlotskaya. The Separation of Rare Earth Elements in the Form of Oxalates and Fluorides in the Presence of Large Quantities of Other Elements	162

Card 5/9

Rare Earth Elements (Cont.)

SOV/2402

Zolotavin, V. L., L. K. Ponomareva. A Rapid Method of Determining Cerium in Loparite	176
Ambrozhii, M. N. On the Problem of the Chemical Control of Compound Purity of Rare Earth Elements of the Cerium Sub-Group	179
Ambrozhii, M. N., and Ye. F. Luchnikova. On the Problem of a Qualitative Determination of Itterbium and Samarium	186
Poluektov, N. S. On the Reaction of the Salts of Rare Earth Elements With Rhodizonic Acid	190
Kuznetsov, V.I., and Ye. V. Mitrofanova. Chemical Control in the Separation of Rare Earth Elements of the Ittrium Sub-Group	192
Poluektov, N. S., R. S. Lauer, and R. Ya. Yagnyatinskaya. The Application of Distributive Chromatography on Paper for an Approximate Determination of the Composition of Rare Earth Elements	199

Card 6/9

## Rare Earth Elements (Cont.)

SOV/2402

Polyektor, N.S. and M.P. Nikonova. Fluorescent Determination of Small Quantities of Europium 208

Panasyuk, V. I., and R. A. Yaroshevich. On the Problem of an Accelerated Method of Determining the Content of Ferric Oxide in a KL-20 Preparation 214

Vaynshteyn, E. Ye., I. P. Shtauberg, and A. T. Mosal'skiy. The Process of Applying the X-Ray Spectral Method of Analysis in Controlling Technological Processes in Producing Individual Rare Earth Elements 217

Zaydel', A. N., N. I. Kaliteyevskiy, and A. N. Razumovskiy. Spectrochemical Determination of Gd, Eu, and Sm in Atomic Materials. Communication I. Principle of the Method and Its Application to the Analysis of Beryllium 239

Zaydel', A. N., N. I. Kaliteyevskiy, A. N. Razumovskiy, and P. P. Yakimova. Spectrochemical Determination of Gd, Eu, and Sm in Atomic Materials. Communication II. Analysis of Thorium and Uranium 251

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Zaydel', A. N., and A. A. Lipovskiy. Spectrochemical Determination of Gd, Eu, and Sm in Atomic Materials. Communication III. Analysis of Zirconium and Bismuth on Gd 258

Grishina, T. I. Determining Small Admixtures of REE in Purified REE by the Method of Emission Spectral Analysis 266

Peshkova, V. M., M. I. Gromova, I. P. Yefimov, and N. A. Kanayev. Spectrophotometric Investigation of Complex Compounds of Rare Earth Elements 277

Dneprovskiy, I. S. Applying the Scintillation Spectrometer in Analyzing Binary Mixtures of Rare Earth Elements 284

Bondarev, K. T., and V. A. Dubrovskiy. Certain Problems in the Use of Rare Earth Elements in the Glass Industry 290

Tsosy, R. I., Yu. M. Tyurin, and Yu. A. Brodskiy. Process of the Use of Polirite in Polishing Glass on a Conveyor at the Plant im. F. E. Dzerzhinsky 295

Card 8/9

Rare Earth Elements (Cont.)

SOV/2402

Savitskiy, Ye. M., and V. F. Terekhova. Study of the Microstructure and Physical-Mechanical Properties of Rare Earth Elements and Their Alloys 299

Tolstopyatova, A. A., and A. A. Balandin. Rare Earth Elements as Catalysts in Organic Chemistry. Cerium, Lanthanum and Samarium Oxides 307

Levshin, V. L., M. A. Konstantinova, and Z. A. Trapeznikova. The Use of Rare Earth Elements in the Chemistry of Luminophores 314

Tikhova, N. M., and V. A. Blakhina. Use of Rare Earth Metals in Alloying Magnesium Cast Alloys 323

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Card 9/9

MN/fal  
9-9-59

VLASOV, Kuz'ma Alekseyevich; KUZ'MENKO, Mariya Vasil'yevna; YES'KOVA, Yevdokiya Mikhaylovna; GERASIMOVSKIY V. I., doktor geologo-mineralogicheskikh nauk, otd.red.; GODOVIKOVA, L.A., red.izd-va; MAKUMI, Ye.V., tekhn.red.; KASHINA, P.S., tekhn.red.

[Lovozero alkali massif; rocks, pegmatites, mineralogy, geochemistry, and genesis] Lovozerakii shchelochnoi massiv; porody, pegmatity, mineralogija, geokhimiia i genezis. Moskva, Izd-vo Akad.nauk SSSR, 1959. 623 p. (MIRA 12:12)  
(Lovozero Tundras--Rocks, Igneous)

3(8), 3(0)

S07/7-59-1-7/14

AUTHORS: Gerasimovskiy, V. I., Lebedev, V. I.

TITLE: On the Distribution of Rubidium and Lithium in the Rocks of  
the Lovozerskiy Massif (O rasprostranenii rubidiya i litiya v  
porolakh Lovozerskogo massiva)

PERIODICAL: Geokhimiya, 1959, Nr 1, pp 60-63 (USSR)

ABSTRACT: The distribution of rubidium and lithium in the nepheline  
syenites of the Lovozerskiy Massif (Kola Peninsula) was inves-  
tigated. This intrusion consists of 4 stages containing the  
following rocks: 1) Evenly grained, porphyritic, poikilitic,  
and other varieties of nepheline syenite. 2) Lujavrites,  
foyanites, and urites. 3) Eudialitic lujavrites, in connection  
with porphyritic lujavrites, tawites, and poikilitic sodalite  
syenites. 4) Complex of dike-rocks of recent formation. From  
the first complex (miaskitic) 4 samples, from the second com-  
plex (agpaitic) 16 samples, and from the third complex (also  
agpaitic) 9 samples were investigated.  $\text{Na}_2\text{O}$ ,  $\text{K}_2\text{O}$ ,  $\text{Li}_2\text{O}$  and  
 $\text{Rb}_2\text{O}$  contents were analyzed (Table). Lithium and rubidium  
were photometrically determined. The amounts vary greatly,  
 $\text{Rb}_2\text{O}$  between 0.0014 and 0.045%, and  $\text{Li}_2\text{O}$  between 0.0004 and

Card 1/2

SOV/7-52-1-1/14

On the Distribution of Rubidium and Lithium in the Rocks of the Lovozerkiy Massif

0.0320%. This may be explained by the great variations in the minerals occurring. There is no direct relation between the rubidium and potassium contents or between the lithium and magnesium contents. Rubidium and lithium were accumulated towards the end of the magmatic development in the rocks of the third stage. Lithium appears as characteristic element of the Lovozerkiy Massif. There are 1 table and 3 references, 1 of which is Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva  
(Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AS USSR, Moscow)

SUBMITTED: July 29, 1958

Card 2/2

SOV/7-59-5-7/14

AUTHORS: Gerasimovskiy, V. I., Tuzova, A. M., Borisenok, L. A.,  
Rasskazova, V. S.

TITLE: Gallium in the Rocks of the Lovozero Alkaline Massif (Galliy  
v porodakh Lovozerskogo shchelochnogo massiva)

PERIODICAL: Geokhimiya, 1959, Nr 5, pp 449 - 454 (USSR)

ABSTRACT: Gallium was determined by the extraction with rhodamine B without previous separation of the other elements (method according to reference 4). The results are given in a large table (Table 1), arranged according to the four intrusion phases of the massif. Furthermore, the results of the spectroscopic gallium determination and the aluminum content are given. The aluminum determinations were carried out by Yu. B. Kholina. The Ga- and Al-values are given in a diagram as well. Another table (Table 2) gives the gallium content of individual minerals. The gallium contents fluctuate between 3 and  $10 \cdot 10^{-3}\%$ ,  $6 \cdot 10^{-3}\%$  is the average for the whole massif. This is more than the usual content of the nepheline syenites. The third intrusion phase has the highest gallium content. Gallium is enriched in the later phases, compared to aluminum. Gallium

Card 1/2

Gallium in the Rocks of the Lovozero Alkaline Massif SOV/7-59-5-7/14

is able to enter into the crystal lattice for aluminum as well as for trivalent iron, e.g. in agirine. There are 1 figure, 2 tables, and 6 references, 5 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernads-kogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR, Moscow)

SUBMITTED: April 8, 1959

Card 2/2

21 (1), 3 (8)

AUTHOR: Gerasimovskiy, V. I.

SOV/89-7-1-3/36

TITLE: Characteristic Features of the Mineralogy of Uranium  
(Kharakternyye osobennosti mineralogii urana)

PERIODICAL: Atomnaya energiya, 1959, Vol 7, No 6, pp 47 - 56 (USSR)

ABSTRACT: On the basis of foreign and Russian papers, a survey was given, which dealt with the following characteristic features of uranium mineralogy: 1. All known uranium- and uraniferous minerals are oxygen carriers. 2. In minerals, uranium occurs only in the quadri- or hexavalent state. 3. A large part of the uranium occurrence in the crust of the earth is concentrated in minerals which are not uraniferous, the uranium occurring as isomorphic admixtures to other elements as e.g. thorium, zirconium, rare earths, etc. 4. Uranium and uraniferous minerals form in the course of the various mineral-forming processes. 5. Radioactivity is a characteristic feature of uranium and uraniferous minerals. There are 37 references, 25 of which are Soviet.

SUBMITTED: October 4, 1958

Card 1/1

GERASIMOVSKIY, V.I., prof.

Geochemistry of the rare earth elements. Priroda 48 no.6:19-26  
Je '59. (MIRA 12:5)

1. Institut geokhimii im. V.I. Vernadskogo AN SSSR, Moskva.  
(Rare earths)

GERASIMOVSKY, V. I.; LEBEDEV, V. I.

Cesium concentration in rocks of the Lovozero massif. Geokhimiia  
no.6:545-546 '60. (MIRA 13:10)

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo  
AN SSSR, Moskva.  
(Lovozero tundras--Cesium)

GERASIMOVSKIY, V.I.; NESMYSYANOVA, L.I.

Distribution of lead and zinc in rocks of the Lovozero Massif.  
Geokhimiia no.7:590-593 '60. (MIRA 13:11)

1. V.I. Vernadskiy Institute of Geochemistry and Analytical  
Chemistry, Academy of Sciences, U.S.S.R., Moscow.  
(Lovozero Tundras--Rocks, Igneous)  
(Lead) (Zinc)

Gerasimovskiy, V.I.; VenKina, V.A.

Niobium tantalum ratio in minerals of the Lovozero Massif. Geokhimiia  
no.8:697-700 '60. (MIRA 14:1)

1. V.I. Vernadskiy Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, U.S.S.R., Moscow.  
(Lovozero tundras--Mineralogy) (Niobium)  
(Tantalum)

GERASIMOVSKIY, V. I.

"Geochemistry of rare elements of the Lovozero alkaline massif"

Paper submitted at the International Geological Congress XXI Session  
1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

GERASIMOVSKIY, V.I.; KHITROV, V.O.

Geochemistry of boron in nepheline syenites of the Lovozero Massif  
Geokhimiia no.6:535-537 '61. (MIRA 14:6)

1. Institut geokhimi i analiticheskoy khimii imeni V.I.Vernadskogo  
AM SSSR i Vseroyuznyy nauchno-issledovatel'skiy institut mineral'-  
nogo syr'ya, Moskva.  
(Lovozero Tundras--Nepheline syenite)  
(Boron)

GERASIMOVSKIY, V.I.; POLYAKOV, A.I.; FEYGIN, Ya.M.

Structure of the differentiated lujavrite-foyaite-urtite rock  
complex of the Lovozero Massif. Dokl. AN SSSR 136 no. 3:700-  
703 Ja '61. (MIRA 14:2)

1. Institut geokhimi i analiticheskoy khimii imeni V.F.  
Vernadskogo. Predstavлено академиком A.P. Vinogradovym.  
(Lovozero tundras—Nepheline syenite)

SOLODOV, Nikolay Alekseyevich; VLASOV, K.A., glav. red.; GERASIMOVSKIY, V.I., doktor geol.-miner. nauk, otd. red.; PERSHTINA, Ye.G., red. iad-va; SHEVCHENKO, G.N., tekhn. red.; RYLINA, Yu.V., tekhn. red.

[Internal structure and geochemistry of rare-metal granite pegmatites] Vnutrennee stroenie i geokhimiia redkometal'nykh granitnykh pegmatitov. Moskva, Izd-vo Akad. nauk SSSR, 1962. (MIRA 16:2) 233 p.

1. Chlen-korrespondent Akademii nauk SSSR (for Vlasov).  
(Pegmatites)

GERASIMOVSKIY, V.I.; RASSKAZOVA, V.S.

Distribution of thallium in nepheline syenites of the Lovozero  
Tundras (Kola Peninsula). *Geokhimiia* no.3:243-248 '62.  
(MIRA 15:4)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, U.S.S.R., Moscow.  
(Lovozero Tundras—Thallium) (Lovozero Tundras—Nepheline syenite)

GERASIMOVSKIY, V.I.

Mineralogy of uranium. Min. sbor. no.16:343-358 '62.  
(MIRA 16:10)  
1. Institut geokhimii i analiticheskoy khimii AN SSSR, Moskva.  
(Uranium)

GERASIMOVSKIY, V.I.

Keldyshite, a new mineral. Dokl. AN SSSR 142 no.4:916-  
918 F '62. (MIRA 15:2)

1. Institut geokhimii i analiticheskoy khimii im. V.I.  
Vernadskogo AN SSSR. Predstavлено академиком A.P.Vinogradovym.  
(Lovozero Tundras—Zirconium silicates)

GERASIMOVSKIY, V.I.; POLYAKOV, A.I.

Sphene-amphibole iolite-melteigite from the Lovozero massif.  
Dokl. AN SSSR 143 no.5:1179-1181 Ap '62. (MIRA 15:4)

1. Institut geokhimii i analiticheskoy khimii im. V. I.  
Vernadskogo AN SSSR. Predstavлено академиком A.P.Vinogradovym.  
(Lovozero tundras--Minerals)

VINCGRADOV, A.P., akademik, otv. red.; BARANOV, V.I., red.; BARSUKOV, V.L., red.; BEUS, A.A., red.; VALYASHKO, M.G., red.; GERASIMOVSKIY, V.I., red.; KORZHINSKIY, D.S., red.; RONOV, A.B., red.; TUGARINOV, A.I., red.; KHITAROV, N.I., red.; SHCHERBINA, V.V., red.; TARASOV, L.S., red. izd-va; DOROKHINA, I.M., tekhn. red.

[Chemistry of the earth's crust] Khimiia zemnoi kory; trudy. Moskva, Izd-vo Akad.nauk. Vol.1. 1963. 430 p. (MIRA 16:3)

1. Geokhimicheskaya konferentsiya, posvyashchennaya stoletiyu so dnya rozhdeniya akademika V.I.Vernadskogo, Moscow, 1963.  
(Geochemistry)

V.I. GERASIMOVSKIY (USSR)

"The geochemical features of agpaitic nepheline-syenites."

Report presented at the Conference on Chemistry of the Earth's Crust,  
Moscow, 14-19 Mar 63.

SHCHERBINA, V.V.; NAUMOV, G.B.; MAKAROV, Ye.S.; GERASIMOVSKIY, V.I.;  
YERMOLAYEV, N.P.; TARASOV, L.S.; TUGARINOV, A.I.; BARSUKOV,  
Vik.L.; SOKOLOVA, N.T.; KOCHENOV, A.V.; GERMANOV, A.I.;  
ZNAMENSKIY, V.L. red.izd-vaz VINOGRADOV, A.P., akademik, red;  
POLYAKOVA, T.V., t&khn.red.  
[Essential features of uranium geochemistry]; Osnovnye cherty  
geokhimii urana. Pod red. A.P. Vinogradova. Moskva, Izd-vo  
AN SSSR, 1963. 350 p. (MIRA 16:10)

1. Akademiya nauk SSSR. Institut geokhimii i analiticheskoy  
khimii.  
(Uranium)

SEMENOV, Yevgeniy Ivanovich; VLASOV, K.A., glav. red.;  
GERASIMOVSKIY, V.I., doktor geol.-min. nauk, otd.  
red.; TARASOV, L.S., red.izd-va; PRUSAKOVA, T.A.,  
tekhn. red.; RUS'KOVA, O.M., tekhn. red.

[Rare-earth mineralogy; mineralogy, genetic types of  
mineralization and basic characteristics of the geo-  
chemistry of rare-earth elements] Mineralogija redkikh  
zemel'; mineralogija, geneticheskie tipy mineralizatsii  
i osnovnye cherty geokhimii redkozemel'nykh elementov.  
Moskva, Izd-vo AN SSSR, 1963. 411 p. (MIRA 17:2)

1.Chlen-korrespondent AN SSSR (for Vlasov).

GERASIMOVSKIY, V.I.; BELYAYEV, Yu.I.

Chromium, nickel, vanadium, and copper contents in alkali rocks  
of the Kola Peninsula. *Geokhimiia* no.1:23-34 Ja '63.

(MIRA 16:9)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, U.S.S.R., Moscow.  
(Kola Peninsula--Rocks, Igneous--Analysis) (Kola Peninsula--Metals)

GERASIMOVSKIY, V.I.

Geochemistry of fluorine in nepheline syenites. Geokhimiia no.3:  
237-244. Mr '63. (MIRA 16:9)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry,  
Academy of Sciences, U.S.S.R., Moscow.  
(Fluorine) (Nepheline syenites) (Geochemistry)

GERASIMOVSKIY, V.I.

Unusual memory and erudition. Och.po ist.geol.znan. no.11:63-64  
'63. (MIRA 16:7)  
(Vernadskii, Vladimir Ivanovich, 1863-1945)

GERASIMOVSKIY, V.I.

Founder of the mineralogy and geochemistry of uranium. Och.po  
ist.geol.znan. no.11:99-106 '63. (MIRA 16:7)  
(Vernadskii, Vladimir Ivanovich, 1863-1945)

GERASIMOVSKIY, V.I.; SEMENOV, Ye.I.; CHEREMINA, V.V.

Kuz'ma Alekseevich Vlasov, 1905-1964; obituary. Cekhovia  
no.12:1332-1333 D '64. (MIRA 18:8)

GERASIMOVSKIY, V.I.

Mineral resources of India. Zap. Vses. min. ob-va 93 no.4;  
487-492 '64  
(MIRA 1882)

GENERAL INFORMATION

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Batulina, S. G.; Golovin, YE. A.; Zelenova, O. I.; Kashirtseva, M. V.;  
Komarova, G. V.; Kondrat'yeva, I. A.; Lisitsin, A. K.; Perel'man,  
A. I.; Sindel'nikova, V. D.; Chernikov, A. A.; Shmarovich, YE. M.

Exogenous epigenetic deposits of uranium; formation conditions  
(Eksochennyye epigeneticheskiye mestorozhdeniya urana; usloviya  
obrazovaniya). Moscow, Atomizdat, 1965. 321 p. Illus., bibliog.  
Errata slip inserted. 1100 copies printed. 19

TOPIC TAGS: deposit formation, epigenetic theory, exodiagenetic  
deposit, surface uranium accumulation, uranium bituminous deposit,  
uranium deposit, uranium, nuclear fuel. 19

PURPOSE AND COVERAGE: This book is intended for readers specializing  
in the geology of ore deposits, in particular for those concerned  
with atomic raw materials, and also for students of higher-education  
institutions. In the book, for the first time in Soviet and  
foreign literatures, the epigenetic theory of uranium-deposit  
formation is expounded. Many Soviet and foreign source materials

Card 1/4

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13

have been used in this book, and some of the investigations carried out by the present authors are published in this book for the first time. Several names of Soviet scientists working in this field are mentioned. V. A. Uspenskiy collaborated on Ch. X, and N. A. Vinogradova on Ch. III. The authors thank A. A. Saukov, deceased, Corresponding Member Academy of Sciences USSR, and F. I. Vol'fson, D. G. Sapozhnikov, V. I. Garasimovskiy, M. F. Stralkin, G. S. Gritsayenko, and I. P. Kushnarev, Doctors of Geologic-Mineralogic Sciences; V. I. Danchev, Candidate of Geologic-Mineralogic Sciences, and N. A. Volokovskykh. There are about 12 pages of references of which about 3/4 are Soviet.

## TABLE OF CONTENTS (abridged):

Introduction -- 4

Ch. I. Epigenetic processes in hypergenesis zone -- 9

Ch. IX. Chemistry and crystallochemistry of uranium compounds -- 22

Card 2/5

L 50199-65  
AM5014982

Ch. III. Associations of nonoxidized uranium minerals in epigenetic deposits -- 37

Ch. IV. Uranium in surface and ground waters -- 48

Ch. V. Uranium in stratal waters -- 57

Ch. VI. Classification of exogenous uranium deposits -- 83

Ch. VII. Exodiagenetic deposits (Type 5) -- 113

Ch. VIII. Deposits of Oxygenous sheet oxidation (Type 6) -- 133

Ch. IX. Deposits of oxygen-free oxidation (Type 7). Deposits in oil-bearing carbonate rocks -- 180

Ch. X. Uranium-bituminous deposits in nonmetamorphosed sedimentary rocks -- 215

Cont. 3/4

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AM5014982

Ch. XI. On surface uranium accumulations in regions with arid  
climate -- 232

Ch. XII. Zone of oxidation in epigenetic deposits -- 239

Conclusion -- 275

References -- 309

AVAILABLE: Library of Congress

SUB CODE: ES SUBMITTED: 04Feb63 NO REF Sov: 188

OTHER: 118

Card 4/4

GERASIMOVSKIY, V.I.; PAVLENKO, L.I.; NESMEYANOVA, L.I.

Geochemistry of molybdenum in nepheline syenites. Geokhimiia  
no.1:9-15 Ja '65. (MIRA 18:4)

1. Institut geokhimi i analiticheskoy khimii imeni Vernadskogo  
AN SSSR, Moskva.

GRASIMOVSKAYA, V.I.

Twenty-Second Session of the Supreme Soviet of the USSR on Congress  
Geokhimiia no.47-0048-85-115. (AIRA 12:7)

GERASIMOVSKIY, V.I., doktor geol..mineral. nauk

Expedition of geologists to Greenland. Vest. AN SSSR 34 no.1:  
65-68 Ja '65. (MIRA 18:2)

GERASIMOVSKIY, V.I.; KARPUSHINA, V.A.

Relationship of niobium to tantalum in igneous rocks. Geokhimiia no.6;  
757-758 Je '65. (MIRA 18:7)

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SSSR, Moskva.

GERASIMOVSKIY, V.I.

Special features of the mineralogy of the Jlimaussag Massif.  
Zap. Vses. min. ob-va. 94 no.4:444-447 '65. (MIRA 18:9)

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Derivatives of p-alkoxybenzoic acids. Report No.21: Some cyclo-  
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ACC NR: AP7003844

(A,N)

SOURCE CODE: UR/0122/67/000/001/0037/0039

AUTHOR: Gerasimyak, R. P. (Engineer)

ORG: none

TITLE: Calculation of the cable load of a crane

SOURCE: Vestnik mashinostroyeniya, no. 1, 1967, 37-39

TOPIC TAGS: crane, connecting cable, motor, forced vibration, transient vibration, differential equation system/ MT 11 6 motor, MTK motor

ABSTRACT: The transient processes arising from the electromagnetic moments of the drive motor of a crane were analyzed for the dynamic forces which can cause overloading of the cable. The crane with a two-step cylindrical reducer and a normal load on the cable was reduced to an effective system of motor-shaft-drum with the equivalent parameters for each component. The differential equation describing the action of the system was transformed to a fourth order nonhomogeneous differential equation. For its solution, an electromagnetic moment of an asynchronous motor with acceleration was taken in the form of a simplified starting moment. By calculating the effects of various resistors in the rotor circuit of the MT-11-6 motor, it was found that the highest moment peak occurred at the lowest resistance. All studies were carried out for a short-circuited motor, showing that the maximum force in the cable was larger at the small perturbing frequency. At the start, the oscillation frequency of the

Card 1/2

IMC 621 877/025 000-06 ACC-0000

005 021.075/075.02.65.005.5.001.24

ACC NR: AP7003844

electromagnetic moments of the motor equaled the power supply frequency and decreased with acceleration. Studies and tests for cranes with motors MTK-51-8 and MTK-41-8 showed that the overloading is caused chiefly by the constant component of the motor moment, the periodic component adding only 0.5--1%. The peaks in a balanced crane can be calculated after neglecting the periodic part because the frequency does not transmit the effect to the load. Other components can be similarly analyzed. Orig. art. has: 1 table, 2 figures, and 11 formulas.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 001

Card 2/2

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Technical and economic indices of nonbalanced electric drive  
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16 no.12:11-18 D '63. (MIRA 17:2)

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USSR/Farm Animals - Poultry

Q

Abs Jour : Ref Zhur - Biol., № 15, 1958, 69420

Author : Gerasimyan, E.A., Astsatryan, N.M.

Inst : Armenian Scientific Research Institute of Animal Husbandry and Veterinary Medicine

Title : On the Standardization of Silage from Corncobs in the Rations of Hens

Orig Pub : Byul. nauchno-tekhn. inform. Arm. n.-i. in-ta zhivotnovodstva in veterinarii, 1957, № 1, 20-22

Abstract : It was noted that feeding 40 g of silage daily, per head, during 2½ months to hens weighing 1.2 kg had an adverse effect on their egg production. The author assumes that the harmful influence of such a quantity of silage was caused by a considerable content of organic acids in the silage. It is recommended to include in the rations of

Card 1/2

USSR/Farm Animals - Poultry

Abs Jour : Ref Zler - Biol., № 15, 1958, 69420

laying hens 20 g of silage from corncobs daily, per head.  
-- A.D. Musin

Card 2/2

- 62 -

GERASIMOVICH

USSR/Farm Animals, Small Horned Cattle

Q-3

Abs Jour : Rof Zhur - Biol., No 11, 1958, No 50009

Author : Gerasimov E. Mikhilov Z.F.  
Inst : Armenian Scientific Research Institute of Animal Husbandry  
and Veterinary Sciences.  
Title : The Effects of Rations with Variegated Grass Contents Upon  
the Food Digestibility in Lactating Cows.

Orig Pub : Tr. Arm. n.-i. in-ta zhivotnovodstva i veterinarii, 1957,  
2, 153-164

Abstract : One group of cows received a diet consisting of 90 percent of grass and 10 percent of concentrates, and another group received 70 percent, 20 percent, and 10 percent respectively of cotton plant peeling. The protein content was the same in all rations. Digestibility of the first diet was higher with respect of organic substances by 6.39 percent, with respect to proteins by 6.55 percent, and with respect to cellulose by 7.53 percent.

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SO Knizhnyay Letopis'  
No 2, 1986.